# Natural Stormwater Mangement for Residential Properties

2/4/2017

Landowner Workshop



#### **Presentation Highlights**

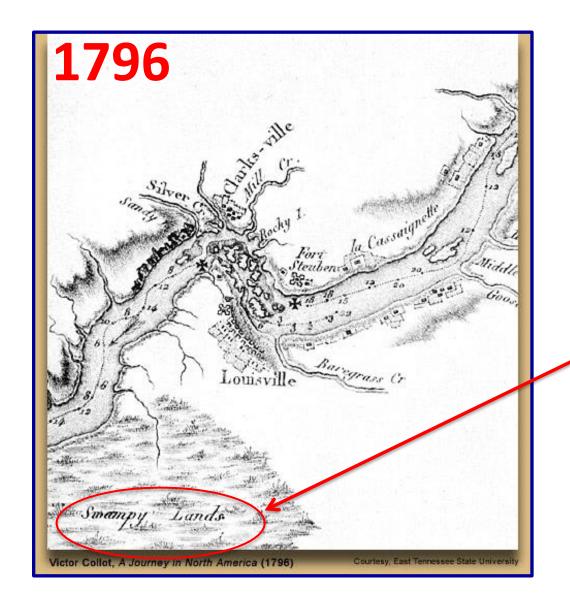
- Traditional Stormwater Management
- Natural Stormwater Management
- Why Should I Care?



# Traditional Stormwater Management

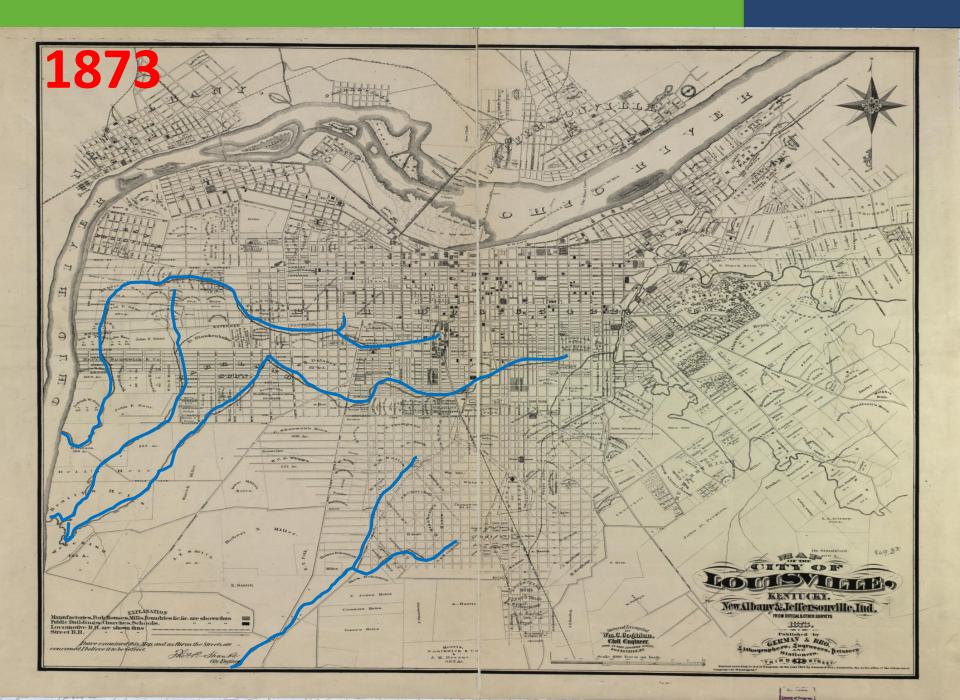


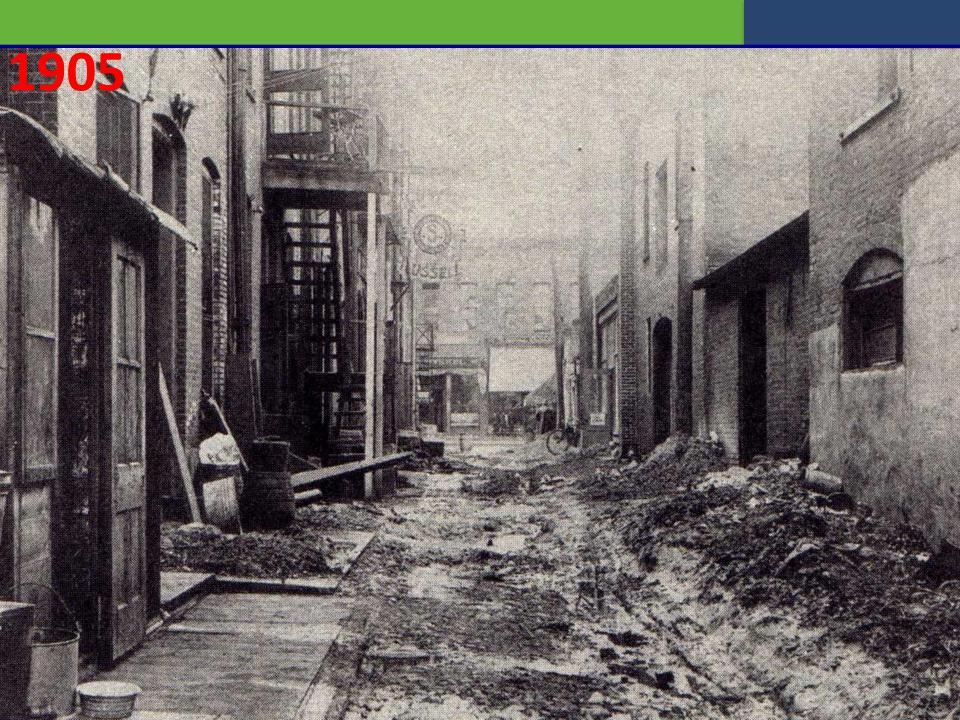
#### Where We Started



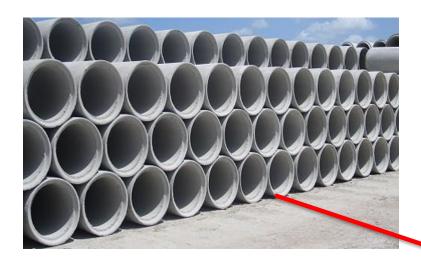
"Swampy Lands"







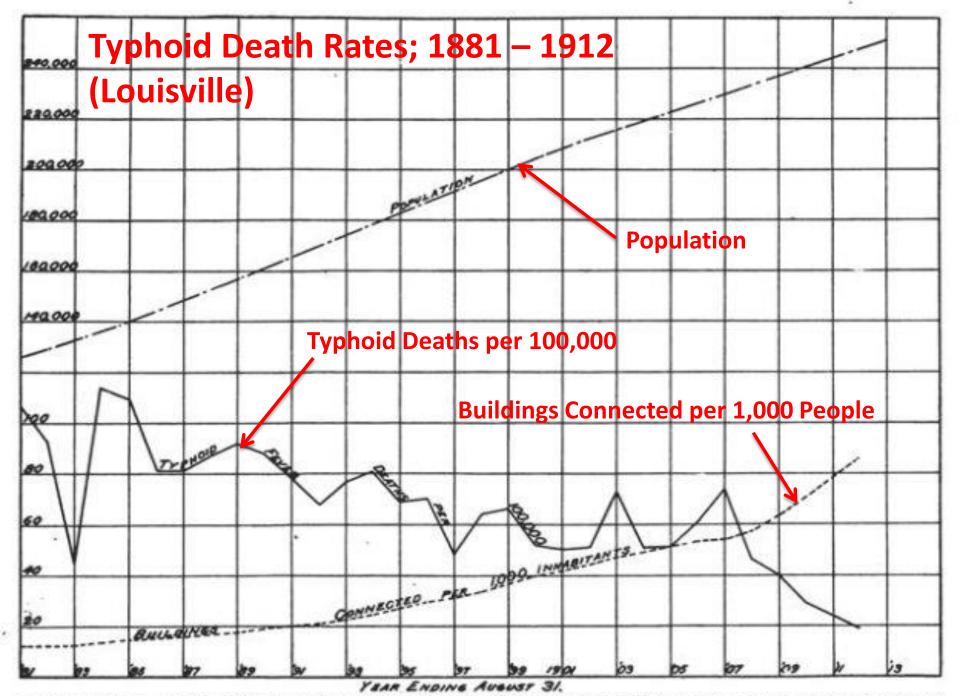
#### Lots of pipes!



Get the water away from people and into the nearest stream as fast as possible.









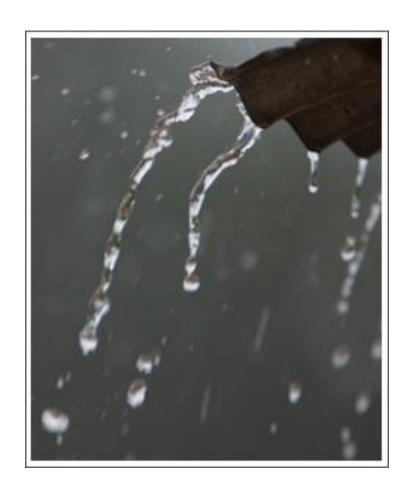


Filter runoff before it can carry pollutants to waterways, reduce excess runoff.





- Hard surfaces don't absorb rain
  - Roofs
  - Driveways/Parking Lots
  - Patios
- Development introduces pollutants
  - Oil, Gas
  - Trash, Debris
  - Sediment
  - Metals, Chemicals
  - Excess runoff
  - Heat
- Rain carries pollutants to waterway





#### Rain Gardens:

- Use deep-rooted native plants to absorb and filter runoff
- Provide habitat
- Aesthetic value





#### Rain Garden Tips:

- Ensure there is an appropriate water source (downspout)
- Soil type is important, may need to be amended
- Usually 8 to 12 inches deep
- Locate at least 10 feet away from structures with basements
- Use a variety of native plant species, ensure location will allow them to thrive
- Use in combination with rain barrel to ensure health during drought





# Why Should I Care?



#### **Attractive, Functional Landscape**

- Rain gardens soak up stormwater runoff
- Rain gardens remove pollutants from stormwater runoff that damage the environment
- Rain gardens are attractive, value-adding landscaping features





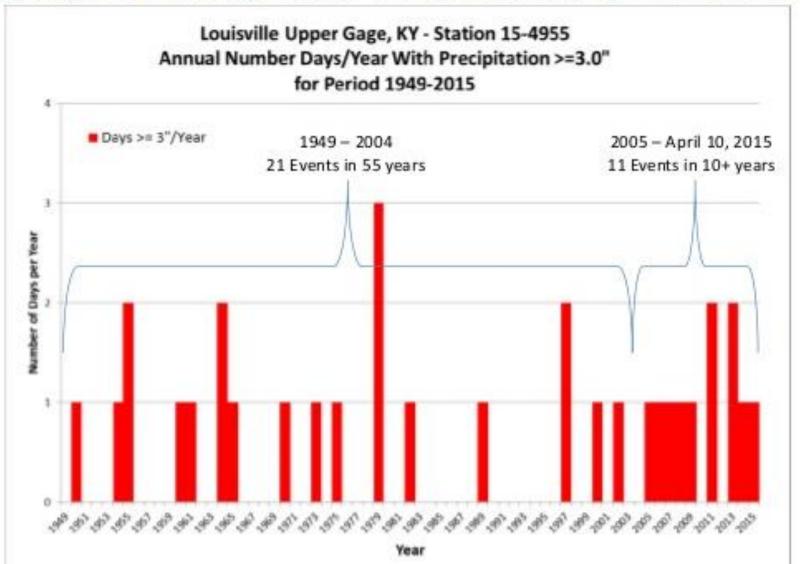
#### **Stormwater Pollution**

- Sediment is the #1 pollutant in Kentucky
- Major effect on usability of waterways, aquatic life, habitat





# Increased Frequency of Extreme Storms Highlights Drainage and Floodplain Management Needs



### **Questions?**

